## **Judging Tally Sheet** Junior and Senior - Experiment



PROJECT ID NUMBER: _	
PROJECT TITLE:	

#### A. Scientific value

Problem or Hypothesis	Score (0-10)	
Clearly stated? Provided direction for the project?		
Can the student explain why they found it interesting?		

### **Background and Sources**

Evidence of background reading or other background research? Multiple, independent sources used and verified? Sources used were credible? Were outside sources properly credited?

#### **Experimental Design**

Score (0-10) Was the experiment appropriate at testing the hypothesis? Understanding of controls? Understanding of variables that can be manipulated? Understanding of the effect of variables that cannot be manipulated? Adequate replication?

#### Recording and Presentation of Data

Score (0-10) \_\_\_\_ Did student record data adequately during experiment?

Did student understand the technology used in collecting data?

Did the student identify key points and concepts?

Data presented clearly (figures, graphs, tables)? Was data presented in the appropriate format?

#### Inferences from Data

Score (0-10) \_\_\_\_\_

Score (0-10)

Did student understand sources of error? Were errors accounted for?

Did the student understand the limitations of the experiment?

Were extrapolations of data appropriate?

Was appropriate statistical analysis performed? Does student understand statistical significance? Acknowledgments of unknowns and areas that require research?

Did the student show critical thinking and analytical skills?

Conclusions Score (0-10)

Justified by data? Clearly presented?

Could the student relate results to their Problem or Hypothesis?

Was help with the project adequately acknowledged (e.g. parents, teachers)?

Section A total	
(Maximum 60 points)	

# **B.** Creativity

Resourcefulness and Imagination Imaginative or creative choice of topic? Was the experiment original and novel? Resourceful or imaginative use of technology to gather data? Imaginative interpretation of data?	Score (0-10)
Future Work Suggestions for improvement? Suggestions for future research? Has student discerned any applications?	Score (0-10)
	Section B total (Maximum 20 points)
C. Communication	
Written Report Clear? Concise? Logical? Followed guidelines?	Score (0-10)
Oral Presentation and Project Display Clear? Concise? Logical? Enthusiastic? Answered questions well?	Score (0-10)
	Section C total (Maximum 20 points)
Total for all sections(Maximum 100 points)	
Notes on special merits of project:	